



IFWO

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/814,850

DATE: 09/28/2004

TIME: 09:53:54

Input Set : A:\U015118-6.ST25.txt

Output Set: N:\CRF4\09282004\J814850.raw

3 <110> APPLICANT: Rajamohan, Govindan  
 4 Dahiya, Monika  
 5 Pathania, Ranjana  
 6 Dikshit, Kanaka Lata  
 8 <120> TITLE OF INVENTION: A METHOD FOR OXYGEN REGULATED PRODUCTION OF RECOMBINANT  
 9 STAPHYLOKINASE  
 11 <130> FILE REFERENCE: U 015118-6  
 13 <140> CURRENT APPLICATION NUMBER: 10/814,850  
 14 <141> CURRENT FILING DATE: 2004-03-31  
 16 <150> PRIOR APPLICATION NUMBER: US 60/459,439  
 17 <151> PRIOR FILING DATE: 2003-04-01  
 19 <160> NUMBER OF SEQ ID NOS: 14  
 21 <170> SOFTWARE: PatentIn version 3.3  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 161  
 25 <212> TYPE: DNA  
 26 <213> ORGANISM: Artificial Sequence  
 28 <220> FEATURE:  
 29 <223> OTHER INFORMATION: A nucleotide sequence of expression cassette OXY-1  
 31 <400> SEQUENCE: 1  
 32 gatcaagctt atcatcgata agcttacagg acgctgggtt aaaagtattt gagttttgat 60  
 34 gtggattaag ttttgagagg tcaataagat tataatatgt gatgcttcac aattctgatg 120  
 36 tatggcaaaa ccataataat gaacttaagg aagacctcat g 161  
 39 <210> SEQ ID NO: 2  
 40 <211> LENGTH: 582  
 41 <212> TYPE: DNA  
 42 <213> ORGANISM: Artificial Sequence  
 44 <220> FEATURE:  
 45 <223> OTHER INFORMATION: A modified staphylokinase SAK-2 gene  
 47 <400> SEQUENCE: 2  
 48 gaacttaaggc atatgaaagg aaaatataaa aaggcgatg acgcgagttt ttttgaacca 60  
 50 acaggccgt atttgatgtt aaatgtgact ggagttgtat gtaaaggaaa tgaattgcta 120  
 52 tccccctcatt atgtcgagtt tcctattaaa cctgggacta cacttacaaa agaaaaaatt 180  
 54 gaatactatg tcgaatggc attagatgcg acagcatata aagagtttag agtagttgaa 240  
 56 ttagatccaa gcgcaaagat cgaagtcaact tattatgata agaataagaa aaaagaagaa 300  
 58 acgaagtctt tccctataac agaaaaaggt tttgttgc cagatttac agagcatatt 360  
 60 aaaaaccctg gattcaactt aattacaaag gttgtttag aaaaagaaata aaacaaaaata 420  
 62 gttgttatt atagaaagta atgtcttgat tgaatatgtg tagtcaaattt atctttcatc 480  
 64 aaattctcat tcatgcacga atggttctgc cccacctaattt cagatattac gtgacttatg 540  
 66 gggagaaaatc agtttgataa aaagtggagg atccagtagc cg 582  
 69 <210> SEQ ID NO: 3  
 70 <211> LENGTH: 363  
 71 <212> TYPE: PRT

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72 <213> ORGANISM: Artificial Sequence  
 74 <220> FEATURE:  
 75 <223> OTHER INFORMATION: A peptide sequence of modified staphylokinase SAK-2 gene  
 77 <400> SEQUENCE: 3  
 79 Glu Ala Leu Ala Gly Leu Tyr Ala Leu Ala Thr His Arg Leu Tyr Ser  
 80 1 5 10 15  
 83 Leu Tyr Ser Gly Leu Tyr Ala Ser Pro Ala Ser Pro Ala Leu Ala Ser  
 84 20 25 30  
 87 Glu Arg Thr Tyr Arg Pro His Glu Gly Leu Pro Arg Thr His Arg Gly  
 88 35 40 45  
 91 Leu Tyr Pro Arg Thr Tyr Arg Leu Glu Met Glu Thr Val Ala Leu Ala  
 92 50 55 60  
 95 Ser Asn Val Ala Leu Thr His Arg Gly Leu Tyr Val Ala Leu Ala Ser  
 96 65 70 75 80  
 99 Pro Gly Leu Tyr Leu Tyr Ser Gly Leu Tyr Ala Ser Asn Gly Leu Leu  
 100 85 90 95  
 103 Glu Leu Glu Ser Glu Arg Pro Arg His Ile Ser Thr Tyr Arg Val Ala  
 104 100 105 110  
 107 Leu Gly Leu Pro His Glu Pro Arg Ile Leu Glu Leu Tyr Ser Pro Arg  
 108 115 120 125  
 111 Gly Leu Tyr Thr His Arg Thr His Arg Leu Glu Thr His Arg Leu Tyr  
 112 130 135 140  
 115 Ser Gly Leu Leu Tyr Ser Ile Leu Glu Gly Leu Thr Tyr Arg Thr Tyr  
 116 145 150 155 160  
 119 Arg Val Ala Leu Gly Leu Thr Arg Pro Ala Leu Ala Leu Glu Ala Ser  
 120 165 170 175  
 123 Pro Ala Leu Ala Thr His Arg Ala Leu Ala Thr Tyr Arg Leu Tyr Ser  
 124 180 185 190  
 127 Gly Leu Pro His Glu Ala Arg Gly Val Ala Leu Val Ala Leu Gly Leu  
 128 195 200 205  
 131 Leu Glu Ala Leu Ala Pro Arg Ser Glu Arg Ala Leu Ala Leu Tyr Ser  
 132 210 215 220  
 135 Ile Leu Glu Gly Leu Val Ala Leu Thr His Arg Thr Tyr Arg Thr Tyr  
 136 225 230 235 240  
 139 Arg Ala Ser Pro Leu Tyr Ser Ala Ser Asn Leu Tyr Ser Leu Tyr Ser  
 140 245 250 255  
 143 Gly Leu Gly Leu Thr His Arg Thr His Arg Leu Tyr Ser Ser Glu Arg  
 144 260 265 270  
 147 Pro His Glu Pro Arg Ile Leu Glu Thr His Arg Gly Leu Leu Tyr Ser  
 148 275 280 285  
 151 Gly Leu Tyr Pro His Glu Val Ala Leu Val Ala Leu Pro Arg Ala Ser  
 152 290 295 300  
 155 Pro Leu Glu Ser Glu Arg Gly Leu His Ile Ser Ile Leu Glu Leu Tyr  
 156 305 310 315 320  
 159 Ser Ala Ser Asn Pro Arg Gly Leu Tyr Pro His Glu Ala Ser Asn Leu  
 160 325 330 335  
 163 Glu Ile Leu Glu Thr His Arg Leu Tyr Ser Val Ala Leu Val Ala Leu  
 164 340 345 350  
 167 Ile Leu Glu Gly Leu Leu Tyr Ser Leu Tyr Ser

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171 <210>	SEQ ID NO: 4		
172 <211>	LENGTH: 37		
173 <212>	TYPE: DNA		
174 <213>	ORGANISM: Artificial Sequence		
176 <220>	FEATURE:		
177 <223>	OTHER INFORMATION: A primer SAK-1 for amplification		
179 <400>	SEQUENCE: 4		
180	gattgttagcc atatgtcaag ttcattcgac aaaggaa		37
183 <210>	SEQ ID NO: 5		
184 <211>	LENGTH: 37		
185 <212>	TYPE: DNA		
186 <213>	ORGANISM: Artificial Sequence		
188 <220>	FEATURE:		
189 <223>	OTHER INFORMATION: An oligonucleotide primer SAK-2		
191 <400>	SEQUENCE: 5		
192	cggctactgg atcctccact tttatccaaa ctgattt		37
195 <210>	SEQ ID NO: 6		
196 <211>	LENGTH: 45		
197 <212>	TYPE: DNA		
198 <213>	ORGANISM: Artificial Sequence		
200 <220>	FEATURE:		
201 <223>	OTHER INFORMATION: An oligonucleotide primer SAK-3		
203 <400>	SEQUENCE: 6		
204	gaacttaagg aagatataca tatgtcaagt tcattcgaca aagga		45
207 <210>	SEQ ID NO: 7		
208 <211>	LENGTH: 36		
209 <212>	TYPE: DNA		
210 <213>	ORGANISM: Artificial Sequence		
212 <220>	FEATURE:		
213 <223>	OTHER INFORMATION: An oligonucleotide primer SAK-4		
215 <400>	SEQUENCE: 7		
216	gaacttaagc atatggctgg agcttataaa aaggcc		36
219 <210>	SEQ ID NO: 8		
220 <211>	LENGTH: 411		
221 <212>	TYPE: DNA		
222 <213>	ORGANISM: Staphylococcus aureu		
224 <400>	SEQUENCE: 8		
225	tcaagttcat tcgacaaaagg aaaatataaa aaggcgatg acgcgagtt ttttgaacca		60
227	acaggcccgt atttgatggt aaatgtgact ggagttgatg gtaaaggaaa tgaattgcta		120
229	tccctcatt atgtcgagtt tccttataaa cctggacta cacttacaaa agaaaaaatt		180
231	gaatactatg tcgaatggc attagatgcg acagcatata aagagtttag agtagttgaa		240
233	ttagatccaa gcgcaaagat cgaagtcact tattatgata agaataagaa aaaagaagaa		300
235	acgaagtctt tccctataac agaaaaaggt ttgttgtcc cagatttac agagcatatt		360
237	aaaaaccctg gattcaacctt aattacaaaag gttgttatag aaaagaata a		411
240 <210>	SEQ ID NO: 9		
241 <211>	LENGTH: 606		
242 <212>	TYPE: DNA		
243 <213>	ORGANISM: Staphylococcus aureus		

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245 <400> SEQUENCE: 9  
246 gaacttaagg aagatataca tatgtcaagt tcattcgaca aaggaaaata taaaaaggc 60  
248 gatgacgcga gttatttga accaacaggc ccgtatttga tggtaatgt gactggagtt 120  
250 gatggtaaag gaaatgaatt gctatcccct cattatgtcg agtttcctat taaacctggg 180  
252 actacactta caaaagaaaa aattgaatac tatgtcgaat gggcattaga tgccacagca 240  
254 tataaagagt ttagagtagt tgaatttagat ccaagcgc aaagtcgaat cacttattat 300  
256 gataagaata agaaaaaaga agaaacgaaag tctttcccta taacagaaaa aggttttgtt 360  
258 gtcccgatt tatcagagca tattaaaaac cctggatca acttaattac aaaggtttgtt 420  
260 atagaaaaga aataaaaaca aatagttgtt tattatagaa agtaatgtct tgattgaata 480  
262 tgtgttgta aattatctt catcaaattc tcattcatgc acgaatgtt ctgccccacc 540  
264 taatcagata ttacgtgact tatgggaga aatcagtttg gataaaagtg gaggatccag 600  
266 tagccg 606  
269 <210> SEQ ID NO: 10  
270 <211> LENGTH: 377  
271 <212> TYPE: PRT  
272 <213> ORGANISM: Staphylococcus aureus  
274 <400> SEQUENCE: 10  
276 Ser Glu Arg Ser Glu Arg Ser Glu Arg Pro His Glu Ala Ser Pro Leu  
277 1 5 10 15  
280 Tyr Ser Gly Leu Tyr Leu Tyr Ser Thr His Arg Leu Tyr Ser Leu Tyr  
281 20 25 30  
284 Ser Gly Leu Tyr Ala Ser Pro Ala Ser Pro Ala Leu Ala Ser Glu Arg  
285 35 40 45  
288 Thr Tyr Arg Pro His Glu Gly Leu Pro Arg Thr His Arg Gly Leu Tyr  
289 50 55 60  
292 Pro Arg Thr Tyr Arg Leu Glu Met Glu Thr Val Ala Leu Ala Ser Asn  
293 65 70 75 80  
296 Val Ala Leu Thr His Arg Gly Leu Tyr Val Ala Leu Ala Ser Pro Gly  
297 85 90 95  
300 Leu Tyr Leu Tyr Ser Gly Leu Tyr Ala Ser Asn Gly Leu Leu Glu Leu  
301 100 105 110  
304 Glu Ser Glu Arg Pro Arg His Ile Ser Thr Tyr Arg Val Ala Leu Gly  
305 115 120 125  
308 Leu Pro His Glu Pro Arg Ile Leu Glu Leu Tyr Ser Pro Arg Gly Leu  
309 130 135 140  
312 Tyr Thr His Arg Thr His Arg Leu Glu Thr His Arg Leu Tyr Ser Gly  
313 145 150 155 160  
316 Leu Leu Tyr Ser Ile Leu Glu Gly Leu Thr Tyr Arg Thr Tyr Arg Val  
317 165 170 175  
320 Ala Leu Gly Leu Thr Arg Pro Ala Leu Ala Leu Glu Ala Ser Pro Ala  
321 180 185 190  
324 Leu Ala Thr His Arg Ala Leu Ala Thr Tyr Arg Leu Tyr Ser Gly Leu  
325 195 200 205  
328 Pro His Glu Ala Arg Gly Val Ala Leu Val Ala Leu Gly Leu Leu Glu  
329 210 215 220  
332 Ala Leu Ala Pro Arg Ser Glu Arg Ala Leu Ala Leu Tyr Ser Ile Leu  
333 225 230 235 240  
336 Glu Gly Leu Val Ala Leu Thr His Arg Thr Tyr Arg Thr Tyr Arg Ala  
337 245 250 255

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340 Ser Pro Leu Tyr Ser Ala Ser Asn Leu Tyr Ser Leu Tyr Ser Gly Leu  
 341       260                   265                   270  
 344 Gly Leu Thr His Arg Thr His Arg Leu Tyr Ser Ser Glu Arg Pro His  
 345       275                   280                   285  
 348 Glu Pro Arg Ile Leu Glu Thr His Arg Gly Leu Leu Tyr Ser Gly Leu  
 349       290                   295                   300  
 352 Tyr Pro His Glu Val Ala Leu Val Ala Leu Pro Arg Ala Ser Pro Leu  
 353 305                   310                   315                   320  
 356 Glu Ser Glu Arg Gly Leu His Ile Ser Ile Leu Glu Leu Tyr Ser Ala  
 357       325                   330                   335  
 360 Ser Asn Pro Arg Gly Leu Tyr Pro His Glu Ala Ser Asn Leu Glu Ile  
 361       340                   345                   350  
 364 Leu Glu Thr His Arg Leu Tyr Ser Val Ala Leu Val Ala Leu Ile Leu  
 365       355                   360                   365  
 368 Glu Gly Leu Leu Tyr Ser Leu Tyr Ser  
 369       370                   375  
 372 <210> SEQ ID NO: 11  
 373 <211> LENGTH: 50  
 374 <212> TYPE: DNA  
 375 <213> ORGANISM: Artificial Sequence  
 377 <220> FEATURE:  
 378 <223> OTHER INFORMATION: An oligonucleotide PEC-2 for preparing protein expression  
 379 cassette  
 381 <400> SEQUENCE: 11  
 382 gatcaagctt atcatcgata agcttacagg acgctgggtt aaaagtattt           50  
 385 <210> SEQ ID NO: 12  
 386 <211> LENGTH: 55  
 387 <212> TYPE: DNA  
 388 <213> ORGANISM: Artificial Sequence  
 390 <220> FEATURE:  
 391 <223> OTHER INFORMATION: An oligonucleotide PEC-2 for preparing protein expression  
 392 cassette  
 394 <400> SEQUENCE: 12  
 395 atcttattga cctctaaaaa cttaatccac atcaaaactc aaataacttt aaccc           55  
 398 <210> SEQ ID NO: 13  
 399 <211> LENGTH: 55  
 400 <212> TYPE: DNA  
 401 <213> ORGANISM: Artificial Sequence  
 403 <220> FEATURE:  
 404 <223> OTHER INFORMATION: An oligonucleotide PEC-3 for preparing protein expression  
 405 cassette  
 407 <400> SEQUENCE: 13  
 408 agaggtcaat aagattataa tatgtgatgc ttcacaattc tgatgtatgg caaaa           55  
 411 <210> SEQ ID NO: 14  
 412 <211> LENGTH: 50  
 413 <212> TYPE: DNA  
 414 <213> ORGANISM: Artificial Sequence  
 416 <220> FEATURE:  
 417 <223> OTHER INFORMATION: An oligonucleotide PEC-4 for preparing protein expression

**VERIFICATION SUMMARY**

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